

## Claims

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1. Rotor for an electrical rotating machine, for example, a turbo generator, with a rotor winding (7) having several sectors positioned next to each other in circumferential direction, in each of which sectors several conductor bars (4) extending parallel to the longitudinal rotor axis (3) are stacked on top of each other in radial direction, whereby each of the sectors is provided with an axial ventilation channel (5) and several radial ventilation openings (6) communicating with said axial ventilation channel, whereby the ventilation channel (5) is positioned in relation to the conductor bars (4) radially inside and extends parallel to the longitudinal rotor axis (3), and whereby the ventilation openings (6) are spaced apart from each other in axial direction and extend through the conductor bars (4) in radial direction, characterized in that all ventilation openings (6) in the conductor bars (4) are formed by circular holes having the same diameter, said circular holes being positioned on the stacked conductor bars (4) in all sectors provided with air holes so as to be radially aligned with each other.

2. Rotor as claimed in Claim 1, characterized in that the ventilation openings (6) are positioned so that the axial spaces between adjoining ventilation openings (6) along the rotor (1) increase from axially outside to axially inside.

3. Method for producing a rotor (1) as claimed in Claim 1 or 2, characterized in that, for the formation of the ventilation openings (6), circular holes positioned so that the holes are radially aligned when the conductor bars (4) are stacked on each other and in this way form the ventilation openings (6) are made into the corresponding conductor bars (4).

4. Device for performing the method as claimed in Claim 3, characterized in that a holding device is provided that fixes the conductor bar (4) to be processed, and that a drilling device is provided that automatically produces holes at the sites intended for the ventilation openings (6).

5. Use of a device as claimed in Claim 4 for the performing of a method as claimed in Claim 3.